

## APPENDIX A. Statistics for the 1997 Fiscal Year

*Note: This is not a budgetary document and contains information only about competing awards.  
Noncompeting awards (e.g., continuation awards) appear only in the Abstracts of Funded Research  
for the year initially funded. Full budgetary reporting is available each year in the NRI Annual Report.*

**TABLE I**  
**Submission and Award Statistics for NRI, Fiscal Year 1997**  
**Unobligated Funds<sup>a</sup>**

Type	Number of Submissions	Number of Grants	Total Dollars Awarded
New Proposals	1,867	394	\$45,596,362
Resubmitted Proposals	543	104	14,645,508
Renewal Proposals	327 <sup>b</sup>	151 <sup>c</sup>	22,941,432
Conference Proposals <sup>d</sup>	35	29	190,500
<b>OVERALL<sup>e,f</sup></b>	<b>2,772</b>	<b>678</b>	<b>\$83,373,802</b>

<sup>a</sup> Funds available for new grants

<sup>b</sup> Includes 17 renewal proposals that were resubmissions

<sup>c</sup> Includes 4 renewal awards that were resubmissions

<sup>d</sup> Correction of the data given in the FY 1997 NRI Annual Report

<sup>e</sup> Excludes 3 interagency awards (made as part of the Joint Program on Terrestrial Ecology and Global Change and as part of the *Arabidopsis thaliana* Genome Sequencing Project)

<sup>f</sup> Excludes 5 Water Resources Assessment and Protection proposals submitted in FY 1996 (see Table II for detailed information on these 5 awards)

**TABLE II**  
**Fund Allocations for NRI, Fiscal Year 1997**  
**Unobligated Funds<sup>a</sup>**

<b>Research Area/Program</b>	<b>Number of Grants</b>	<b>Total Dollars Awarded</b>
<b><i>NATURAL RESOURCES &amp; ENVIRONMENT</i></b>		
Plant Responses to the Environment	27	\$3,509,600
Forest/Rangeland/Crop/Aquatic Ecosystems	18	3,849,068
Water Resources Assessment and Protection <sup>b</sup>	5	1,000,000
Soils and Soil Biology	18	3,652,413
<b><i>NUTRITION, FOOD SAFETY, &amp; HEALTH</i></b>		
Improving Human Nutrition for Optimal Health	29	3,553,629
Ensuring Food Safety	20	2,506,102
<b><i>ANIMALS</i></b>		
Enhancing Animal Reproductive Efficiency	28	4,550,692
Sustaining Animal Health and Well-Being	61	9,574,059
Identifying Animal Genetic Mechanisms and Gene Mapping	17	3,174,857
Improving Animal Growth and Development	19	2,948,974
<b><i>PESTS, BIOLOGICAL CONTROL, AND INTEGRATED PEST MANAGEMENT</i></b>		
Entomology	49	5,049,500
Nematology	5	498,569
Plant Pathology	35	4,142,000
Biologically Based Pest Management	11	1,628,708
Weed Science	8	935,000

<b><i>PLANTS</i></b>		
Plant Genome	28	5,101,566
Plant Genetic Mechanisms	34	3,956,886
Plant Growth and Development	49	4,898,966
Nitrogen Fixation/Metabolism	21	2,030,000
Photosynthesis and Respiration	16	1,797,001
<b><i>MARKETS, TRADE, &amp; RURAL DEVELOPMENT</i></b>		
Markets and Trade	20	1,699,000
Rural Development	11	1,590,000
<b><i>ENHANCING VALUE AND USE OF AGRICULTURAL AND FOREST PRODUCTS</i></b>		
Food Characterization/Process/Product Research	21	2,983,485
Non-Food Characterization/Process/Product Research	16	2,385,916
Improved Utilization of Wood and Wood Fiber	24	2,307,756
<b><i>OTHER</i></b>		
Agricultural Systems Research	10	1,883,307
Strengthening Programs	86	3,390,162
Terrestrial Ecology and Global Change - Interagency	2	887,666
<i>Arabidopsis thaliana</i> Genome Sequencing Project - Interagency <sup>c</sup>	1	200,000

<sup>a</sup> Funds available for new grants

<sup>b</sup> The Water Resources Assessment and Protection Program was not competed in FY 1997 due to limited funds. A number of highly meritorious proposals reviewed in FY 1996 were not supported due to limited funds in FY 1996. Some FY 1997 funds were made available to support these five proposals.

<sup>c</sup> Awarded through an interagency transfer to the National Science Foundation

**TABLE III****Agricultural Research Enhancement Awards, Fiscal Year 1997  
Unobligated Funds<sup>a</sup>**

<b>Type</b>	<b>Number of Grants</b>	<b>Total Dollars Awarded</b>
Postdoctoral Fellowships	27	\$2,362,726
New Investigators	35	4,191,525
Strengthening Awards		
Career Enhancement Awards	6	352,846
Equipment Grants	38	1,019,886
Seed Grants	42	2,017,430
Standard Strengthening Awards	50	6,733,759

<sup>a</sup> Funds available for new grants

## APPENDIX B.

### Scientists Who Served on NRI Peer Review Panels for Fiscal Year 1997

Mitchel Abrahamsen	University of Minnesota
John Adams	University of Notre Dame
Mary Beth Adams	USDA Forest Service
Edith Allen	University of California, Riverside
Kenneth G. D. Allen	Colorado State University
Ruth Grene Alscher	Virginia Polytechnic Institute and State University
Haejung An	Oregon State University Seafood Lab
Gary B. Anderson	University of California, Davis
Mark Andon	The Proctor & Gamble Company
John Antle	Montana State University
Sean Arkins	Illinois State University
Edward B. Bagley	USDA Agricultural Research Service
Joe Balciunas	USDA Agricultural Research Service
Nichole Ballenger	USDA Economic Research Service
Michael Barrett	University of Kentucky
Frank F. Bartol	Auburn University
Samuel I. Beale	Brown University
Cheryl Bellin	DuPont Ag Products
Lionel J. Beaulieu	University of Florida
William Beavis	Pioneer Hi-Bred International, Inc.
Nancy M. Betts	University of Nebraska
J. Lee Beverly	University of Illinois
Arvind A. Bhagwat	USDA Agricultural Research Service
Madan Bhattacharyya	Noble Foundation
Leann L. Birch	Pennsylvania State University
Louis B. Bjostad	Colorado State University
William S. Blaner	Columbia University
Walter Bottje	University of Arkansas
Richard D. Bowden	Allegheny College
Robert S. Bowman	New Mexico Tech
Charles D. Boyer	Oregon State University
Terence M. Bradley	University of Rhode Island
Anne B. Britt	University of California, Davis
Jeff R. Broadbent	Utah State University
Wendy Brown	Washington State University
Wesley B. Bruce	Pioneer Hi-Bred International, Inc.
Vincent Kelly Bunning	Food and Drug Administration
Steve Bursian	Michigan State University
Gisela Buschle-Diller	Auburn University
Miguel L. Cabrera	University of Georgia
Michael A. Caprio	Mississippi State University

Susan Carpenter	Iowa State University
Gary C. Carlton	California State Polytechnic Institute
Caren Chang	University of Maryland
Kent D. Chapman	University of North Texas
Christine D. Chase	University of Florida
Arun K. Chatterjee	University of Missouri, Columbia
Weixin Cheng	Desert Research Institute
V. Gregory Chinchar	University of Mississippi Medical Center
Steven Clark	University of Michigan
Sharon A. Clay	South Dakota State University
Joseph G. Cloud	University of Idaho
Steven D. Clouse	North Carolina State University
Stephen P. Coburn	Fort Wayne State Development Center
Debra P. Coffin	Colorado State University
James T. Colbert	Iowa State University
Timothy Collin	University of Kentucky
Allan Collins	West Virginia University
Luca Comai	University of Washington
Alan J. Conley	University of California, Davis
Donald A. Cooksey	University of California, Riverside
Steven M. Cramer	University of Wisconsin
John C. Cushman	Oklahoma State University
Margaret E. daub	North Carolina State University
Ralph A. Dean	Clemson University
Richard J. Debus	University of California, Riverside
Jill Deikman	Pennsylvania State University
Evan Delucia	University of Illinois
Douglas E. Dennis	James Madison University
Harry Dickerson	University of Georgia
Martin Dickman	University of Nebraska
Rebecca Dickstein	Drexel University
Jack W. Dillwith	Oklahoma State University
Richard A. Dixon	The Noble Foundation
John Doctor	Duquesne University
Rebecca Doerge	Purdue University
James A. Duthie	Oklahoma State University
Mante J. Dzakuma	Prairie View A&M University
Joan J. Eisemann	North Carolina State University
Gregory English-Loeb	Cornell University
Inge Eriks	Washington State University
Terry D. Etherton	Pennsylvania State University
Edward T. Elliot	Colorado State University
Timothy J. Fahey	Cornell University
Mark L. Failla	University of North Carolina, Greensboro
Barry Falgout	Food and Drug Administration
Timothy D. Faust	University of Georgia
Gary W. Felton	University of Arkansas
Bradley Fenwick	Kansas State University

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Donna E. Fernandez	University of Wisconsin
Virginia R. Ferris	Purdue University
William L. Flowers	North Carolina State University
Edward Allen Foegeding	North Carolina State University
Donald E. Fosket	The Salk Institute
Douglas N. Foster	University of Minnesota
Nancy M. Fox	Mississippi State University
Roy C. French	University of Nebraska
Harold C. Furr	University of Connecticut
Amy P. Gamerdinger	Washington State University
Duane Garner	University of Nevada
Patricia Garrett	Center for Urban Affairs and Community Studies
Louis Gasbarre	USDA Agricultural Research Service
H. Rex Gaskins	University of Illinois
Thomas L. German	University of Wisconsin
Said A. Ghabrial	University of Kentucky
Jadwiga M. Giebultowicz	Oregon State University
Sarjeet S. Gill	University of California, Riverside
James D. Godkin	University of Tennessee
Frederick Goetz	University of Notre Dame
Arthur J. Gold	University of Rhode Island
Philip R. Goodrich	University of Minnesota
David Arthur Grantz	University of California
Eleanor Groden	University of Maine
Linda A. Guarino	Texas A&M University
Normal F. Haard	University of California, Davis
Perry B. Hackett	University of Minnesota
Gretchen Hagen	University of Missouri, Columbia
Brian J. Hales	Louisiana State University
Deborah L. Hamernik	University of Arizona
Raymond Hammerschmidt	Michigan State University
Rosemarie W. Hammond	USDA Agricultural Research Service
Andrew James Hansen	Montana State University
Edward D. Harris	Texas A&M University
David E. Harry	Nicholas Turkey Breeding Farms
Gary Hart	Texas A&M University
Dorothy B. Hausman	University of Georgia
Kris Mark Havstad	USDA Agricultural Research Service
Richard F. Helm	Virginia Polytechnic Institute and State University
Larry Hendrickson	Case Corporation
David L. Herrin	University of Texas
Norbert Herzog	University of Texas Medical Branch
Rex Hess	University of Illinois
Dean Hesterberg	North Carolina State University
Sarah Highlander	Baylor College of Medicine
Walter E. Hill	FDA/SPRC
William D. Hitz	DuPont Experimental Station
Nancy W. Y. Ho	Purdue University

Joseph Hogan	Ohio State University
Stephen Hooser	Purdue University
David Horohov	Louisiana State University
Katherine Hout	Cornell University
Theodore C. Hsiao	University of California, Davis
Curtiss D. Hunt	USDA Agricultural Research Service
Jean Bartlett Hunter	Cornell University
Richard S. Hussey	University of Georgia
Nancy Ing	Texas A&M University
Roger Innes	Indiana University
Lee-Ann Jaykus	North Carolina State University
Thomas W. Jeffries	USDA Forest Service
Patricia Johnson	Cornell University
Mark Jutila	Montana State University
Michael Kanost	Kansas State University
Sophia Kathariou	University of Hawaii
James E. Keen	US Meat Animal Research Center
Darshan S. Kelley	USDA Agricultural Research Service
Robert Kemppainen	Auburn University
Brett Kenney	West Virginia University
King-Jung Samuel King	University of Wisconsin
Timothy G. Kingan	USDA Agricultural Research Service
Alan Knapp	Kansas State University
Donald Kobayashi	Rutgers University
Karen E. Koch	University of Florida
Sung I. Koo	Kansas State University
Susan F. Kotarski	Pharmacia & Upjohn, Inc.
Randy Kramer	Duke University
Steve Kresovich	USDA Agricultural Research Service
Vera A. Krischik	University of Minnesota
Mark S. Kulhenschmidt	University of Illinois
Sue J. Lamont	Iowa State University
Michael B. Lanahan	Ciga-Geigy Corporation
Melissa Latimar	West Virginia State University
John F. Leslie	Kansas State University
Leon Levine	Leon Levine & Associates, Inc.
Hei Leung	Washington State University
Alice H. Lichtenstein	Tufts University
Sandy M. Liebhold	USDA Forest Service
Steven W. Lindow	University of California, Berkeley
Hong Ma	Dilbruck Laboratory
Sally A. MacKenzie	Purdue University
Braja K. Mandal	Illinois Institute of Technology
Mary Marchant	University of Kentucky
Douglas L. Marshall	Mississippi State University
John D. Marshall	University of Idaho
Robert Masters	USDA Agricultural Research Service
Ian H. Mather	University of Maryland



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Mark Mazzola	USDA Agricultural Research Service
Stephen P. McCarthy	University of Massachusetts, Lowell
Roger McDonald	University of California, Davis
William A. McIntosh	Texas A&M University
Kevin McNamara	Purdue University
R. Michael Miller	Argonne National Lab
William J. Moar	Auburn University
Gary Moberg	University of California, Davis
Lloyd J. Moberg	Borden Foods Corporation
Harley Moon	Iowa State University
Brandon deArmond Moore	University of Nevada, Reno
Thomas B. Moorman	USDA Agricultural Research Service
Martha Mulks	Michigan State University
George Murphy	Oklahoma State University
Carolyn Napoli	University of California, Davis
Eric A. Nelson	South Dakota State University
Timothy Nelson	Yale University
Mary O'Connell	New Mexico State University
Melvin J. Oliver	Plant Stress and Germplasm Development Unit
Steven C. Padgitt	Iowa State University
Nancy L. Paiva	The Noble Foundation
Guy H. Palmer	Washington State University
Robert W. Parmalee	Ohio State University
William W. Parson	University of Washington
Reynaldo Patina	Texas Tech University
Gregory F. Payne	University of Maryland, Baltimore County
Marjorie P. Penfield	University of Tennessee
Gene R. Petersen	National Renewable Energy Laboratory
Allen T. Phillips	Pennsylvania State University
Rex D. Pieper	New Mexico State University
Dorothy Pierson	University of Colorado
Gary M. Pierzynski	Kansas State University
Karen Plaut	University of Vermont
David G. Pollock, Jr.	Washington State University
Rulon Pope	Brigham Young University
Channapatna Prakash	Tuskegee University
LeBris S. Quinn	American Lake VA Medical Center
Jan Antoni Rafalski	DuPont Experimental Station
Arthur J. Raguaskas	Institute of Paper Science and Technology
Ed Ralston	DNA Plant Technology
Sonny B. Ramaswamy	Mississippi State University
Timothy G. Ramsay	Louisiana State University
John F. Reid	University of Illinois
Willie M. Reed	Michigan State University
Caird Rexroad	USDA Agricultural Research Service
Larry Reynolds	North Dakota State University
Timothy G. Rials	USDA Forest Service
Eric J. Richards	Washington University

Lynn Riddiford	University of Washington
Magaly Rincon-Zachary	Midwestern State University
Sandra S. Ristow	Washington State University
David F. Ritchie	North Carolina State University
M. A. Rao	Rutgers University
Andrew J. Roberts	USDA Agricultural Research Service
Gary P. Roberts	University of Wisconsin
George K. Roderick	University of Hawaii
Wendell L. Roelofs	Cornell University
Gary A. Rohrer	USDA Agricultural Research Service
Jeanne Romero-Severson	Linkage Genetics
Robert T. Rosen	Rutgers University
Jay A. Rosenheim	University of California, Davis
Michael P. Russelle	University of Minnesota
Michael J. Sadowsky	University of Minnesota
Mo Salman	Colorado State University
Leon G. Schumacher	University of Missouri, Columbia
Kate M. Scow	University of California, Davis
Bruce S. Seal	USDA Agricultural Research Service
Ronald Sederoff	North Carolina State University
David I. Shapiro	Integrated BioControl System
Dan Sharp	University of Florida
Ian Sheldon	Ohio State University
Timothy J. Sliter	Southern Methodist University
Denise M. Smith	Michigan State University
C. Matthew Snipp	Stanford University
John N. Sofos	Colorado State University
James N. Spain	University of Missouri, Columbia
Gary A. Splitter	University of Wisconsin
Henry G. Spratt, Jr.	University of Tennessee, Chattanooga
R. Jan Stevenson	University of Louisville
John Stiles	University of Hawaii
Curtis W. Stofferahn	University of North Dakota
Jeffrey Stott	University of California, Davis
Ivar Strand	University of Maryland
Otto Suchsland	Michigan State University
Robert K. Swihart	Purdue University
Mark Tamplin	University of Florida
Jinglu Tan	University of Missouri, Columbia
John Teasdale	USDA Agricultural Research Service
L. Irene Terry	University of Utah
Shelby Thames	University of Southern Mississippi
David W. Threadgill	Vanderbilt University
Michael F. Thomashow	Michigan State University
H. Donald Tilmon	University of Delaware
Peter Anatol Tipton	University of Missouri, Columbia
John Tjepkema	University of Maine
Bruce J. Turner	Virginia Polytechnic Institute and State University

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Laurian Unnevehr	University of Illinois
Thomas Unruh	USDA Agricultural Research Service
Kathryn A. Vandenbosch	Texas A&M University
Vicky van Santen	Auburn University
Larry W. van Tassell	University of Wyoming
Marguerite J. Varagona	New Mexico State University
Michael E. Vayda	University of Maine
John Walti	New Mexico State University
Linda L. Walling	University of California, Riverside
Rosemary C. Wander	Oregon State University
Bruce A. Watkins	Purdue University
Andrew N. Webber	Arizona State University
Ronald Weseloh	Connecticut Agricultural Experiment Station
Maureen C. Whalen	San Francisco State University
Steven G. Whisenant	Texas A&M University
Lester A. Wilson	Iowa State University
Lloyd T. Wilson	Texas A&M University
Milo Wiltbank	University of Wisconsin
Roger P. Wise	USDA Agricultural Research Service
Brain Wright	University of California, Berkeley
Zipora Yablonka-Reuveni	University of Washington
Diana M. Yakowitz	USDA Agricultural Research Service
Chih-Ming Yig	University of Massachusetts
O. C. Yoder	Cornell University
Mark J. Young	Montana State University